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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,720	03/29/2004	Richard D. Hsiao		3747

7590

02/09/2006

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EXAMINER

CAO, ALLEN T

ART UNIT PAPER NUMBER

2652

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/812,720	<b>Applicant(s)</b> HSIAO ET AL.	
	<b>Examiner</b> Allen T. Cao	<b>Art Unit</b> 2652	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2004.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-15 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/17/04</u> . | 6) <input type="checkbox"/> Other: _____  |

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1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- a) The phrase "Applicant disclose a" in the abstract should be changed to --A--.

- b) The phrase --is provided-- should be inserted after the term "yoke" in the abstract, line 3.

2. The disclosure is objected to because of the following informalities:

- a) The "Applicant disclose a" in the specification, page 5, line should be changed to --A--.

- b) The phrase --is provided-- should be inserted after the term "yoke" in the specification, page 5, line 5.

Appropriate correction is required.

3. Claims 1-15 are objected to because of the following informalities:

- a) The term --a-- should be inserted in front the phrase "ferromagnetic material" in claim 1, line 3 and claim 8, line 8.

b) The term "a" in front of the phrase "write gap" in claim 1, line 4 should be changed to --the--.

c) The phrase --a first-- should be inserted in front the phrase "electrically conductive" in claim 1, line 6 and claim 8, line 11.

d) The phrase --the first-- should be inserted in front the phrase "electrically conductive" in claim 1, line 8 and claim 8, line 13.

e) The phrase --a first-- should be inserted in front the phrase "insulating material" in claim 1, line 9 and claim 8, line 14.

f) The phrase --a second-- should be inserted in front the phrase "electrically conductive" in claim 1, line 10 and claim 8, line 15.

g) The phrase --the second-- should be inserted in front the phrase "electrically conductive" in claim 1, line 12 and claim 8, line 17.

h) The phrase --a second-- should be inserted in front the phrase "insulating material" in claim 1, line 13 and claim 8, line 18.

i) The phrase --a third-- should be inserted in front the phrase "electrically conductive" in claim 1, line 14 and claim 8, line 20.

j) The term --a-- should be inserted in front the phrase "ferromagnetic material" in claim 8, line 2.

k) The phrase --pole piece-- should be inserted after the term "pedestal" in claim 8, line 9.

l) The term --; and-- should be inserted after the term "thereon" in claim 1, line 13 and claim 8, line 19.

m) The term —first—should be inserted in front the phrase “insulating material” in claim 2, line 2 and claim 10, line 2.

4. Claims 1-15 are allowed.

5. The following is an examiner’s statement of reasons for allowance:

The prior art of the record does not disclose all of the limitations of the claimed invention including:

A magnetic transducer with an inductive write head comprising a gap layer extending from a write gap toward a back of a yoke; a pedestal pole piece of ferromagnetic material which is in contact with the gap layer at a write gap, a back surface of the pedestal defining a zero throat height line; a first coil layer including a plurality of turns of electrically conductive material which pass between the pedestal pole piece and the back of the yoke, the turns of electrically conductive material of the first coil layer being separated by insulating material having sidewalls with a first seed layer thereon; a second coil layer including a plurality of turns of electrically conductive material which pass between a P2 pole piece and the back of the yoke, the turns of electrically conductive material of the second coil layer being separated by insulating material having sidewalls with a second seed layer thereon; and a third coil layer including a plurality of turns of electrically conductive material which pass between a P3 pole piece and the back of the yoke, all as set forth in claims 1 and 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. This application is in condition for allowance except for the following formal matters:

The above suggested changes.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen T. Cao whose telephone number is (571) 272-7569. The examiner can normally be reached on Mon - Thurs (7:30 - 6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on (571) 272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Allen Cao  
Primary Examiner

AC  
January 23, 2006